

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION

WIN-1835

Effective Date: November 1, 2013

Reevaluation Date: **September 2015**

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

142.094SH-003/143/143.095/145.095 Vinyl Single Hung Windows, New and Replacement Construction, Impact Resistant, by

**Earthwise Group, LLC, manufacturer by
Showcase Custom Windows and Doors
1702 Cullen Blvd.
Houston, Texas 77023
Telephone: (713) 926-8500**

General Description:

System	Description	Label Rating	Design Pressure Rating
1	143.095 Oriel Vinyl Single Hung Windows – New Construction	R-PG65 44 x 84-H Missile Level D	± 65 psf
2	142.094SH-003/143/145.095 Vinyl Single Hung Windows – New Construction	H-R50 48 x 72 Missile Level D	± 50 psf
3	142.094SH-003/143/145.095 Vinyl Single Hung Windows – Replacement Construction	H-R50 53 x 72 Missile Level D	± 50 psf

Product Dimensions:

System	Overall Size	Operating Sash	Fixed Daylight Opening
1	44.00" x 84.00"	40.88" x 35.13"	39.19" x 44.75"
2	48.00" x 72.00"	44.25" x 35.00"	43.00" x 32.63"
3	53.13" x 72.00"	50.50" x 35.50"	48.13" x 32.63"

Product Identification (Certification Agency Labels on Window):

NOTE: There are two labels on each window

System		
1	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR No. 839-1060.0 CAR No. 839-216
	Product Name	143.095 SH Oriel Impact Single Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-05; ASTM E 1996-06; Missile Level D
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR No. 839-1035.0 CAR No. 839-212
	Product Name	142.094SH-003/143/145.095 NC Imp Single Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E 1886-05; ASTM E 1996-06; Missile Level D
3	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR No. 839-1034.0 CAR No. 839-211
	Product Name	142.095SH-003/143/145.095 Rep Imp Single Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E 1886-05; ASTM E 1996-06; Missile Level D

Impact Resistance:

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded

Installation:

System		
1	Type of Installation	New Construction – Nailing Fin
	Wall Framing	Spruce-Pine-Fir
	Fasteners	Minimum 6D nails (0.113" diameter smooth shank)
	Fastener Location/Spacing	Located approximately 6 inches from each corner and approximately 12 inches on center along the perimeter
	Fastener Penetration	Minimum of 1 ½ inches into the wall framing members
2	Type of Installation	New Construction – Nailing Fin
	Wall Framing	Spruce-Pine-Fir
	Fasteners	Minimum No. 8 Screws
	Fastener Location/Spacing	Located approximately 2 inches from each corner and approximately 10 inches on center along the perimeter
	Fastener Penetration	Minimum of 1 ½ inches into the wall framing members

Installation (Continued):

System		
3	Type of Installation	Replacement Construction – Frame
	Wall Framing	Spruce-Pine-Fir
	Fasteners	Minimum No. 8 Screws
	Fastener Location/Spacing	Along each side jamb, located approximately 2 inches from each corner and approximately 16 inches on center along the perimeter. No fasteners along the head and the sill.
	Fastener Penetration	Minimum of 1 ½ inches into the wall framing members

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.